PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference WA 2650-04WO	FOR FURTHER ACTION	See Form PCT/IPEA/416							
International application No.	International filing date (day/month/year)	Priority date (day/month/year)							
PCT/EP2004/003151	25.03.2004	09.07.2003							
International Patent Classification (IPC) or national classification and IPC B60L11/18									
Applicant WOBBEN, Aloys									
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of	14 sheets, include	ling this cover sheet.							
3. This report is also accompanied by A	NNEXES, comprising:								
a. (sent to the applicant and	to the International Bureau) a total of3	sheets, as follows:							
		n amended and are the basis for this report and/or Rule 70.16 and Section 607 of the Administrative							
		onsiders contain an amendment that goes beyond ed in item 4 of Box No. I and the Supplemental							
	Bureau only) a total of (indicate type and num	ber of electronic carrier(s))							
		The state of the s							
related thereto, in computer Section 802 of the Administ		, containing a sequence listing and/or tables plemental Box Relating to Sequence Listing (see							
4. This report contains indications relati	ng to the following items:								
Box No. I Basis of the	report								
Box No. II Priority									
	shment of opinion with regard to novelty, inve	ith regard to novelty, inventive step and industrial applicability							
Box No. IV Lack of unit	ty of invention								
	atement under Article 35(2) with regard to no dexplanations supporting such statement	velty, inventive step or industrial applicability;							
Box No. VI Certain documents cited									
Box No. VII Certain defe	ects in the international application								
Box No. VIII Certain observations on the international application									
Date of submission of the demand Date of completion of this report									
Name and mailing address of the IPEA/EP	Authorized officer	Authorized officer							
Facsimile No.	Telephone No.								

Translation

Вох	No. I	Basis of the report					
1.		regard to the language, this report is based on the internation ated under this item.	al application in the language in which it	was filed, unless otherwise			
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or 55.3)						
2.	receive this re	regard to the elements of the international application, this is ving Office in response to an invitation under Article 14 are eport): the international application as originally filed/furnished the description:	referred to in this report as "originally	o filed" and are not annexed to			
		pages <u>1-12</u>					
		pages*					
	\square	pages*	received by this Authority on				
		the claims:					
		nos. <u>1-15</u>		as originally filed/furnished			
		nos.*					
		nos.*					
		nos.*	received by this Authority on				
		the drawings: sheets 1/3-3/3		as originally filed/furnished			
		sheets*	received by this Authority on				
		sheets*	received by this Authority on				
		a sequence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence Listing.				
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil	•				
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
	If iter	m 4 applies, some or all of those sheets may be marked "supe					

Bo	ox No. II Priority	
1.	This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:	
	copy of the earlier application whose priority has been claimed (Rule 66.7(a)).	
	translation of the earlier application whose priority has been claimed (Rule 66.7(b)).	
2.	This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.	
3.	Additional observations, if necessary:	

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
the entire international application					
Claims Nos. 5, 8, 10, 11, 14					
because:					
the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
the description, claims or drawings (indicate particular elements below) or said claims Nos.					
are so unclear that no meaningful opinion could be formed (specify):					
the claims, or said claims Nos are so inadequately sup	ported				
by the description that no meaningful opinion could be formed.	-				
no international search report has been established for said claims Nos. 5,8,10,11,14					
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Admi Instructions in that:	nistrative				
the written form has not been furnished					
does not comply with the standard					
the computer readable form has not been furnished					
does not comply with the standard					
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply technical requirements provided for in Annex C-bis of the Administrative Instructions.	with the				
See Supplemental Box for further details.					

Box	x No. IV Lack of unity of invention
1.	In response to the invitation to restrict or pay additional fees the applicant has: restricted the claims.
	paid additional fees.
	paid additional fees under protest.
ļ	neither restricted the claims nor paid additional fees.
2.	This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3.	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
l	complied with.
	not complied with for the following reasons:
	See Supplemental Box
ŀ	
l	
4.	Consequently, this report has been established in respect of the following parts of the international application:
	□ all parts. □
1	the parts relating to claims Nos. 1-4, 6, 7, 9, 12, 13, 15

Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement										
1.	Statement							·			
	Novelty	(N)	Claims								YES
			Claims	1-4,	6,	7,	9,	12,	13,	15	NO
	Inventive	e step (IS)	Claims								YES
				1-4,	6,	7,	9,	12,	13,	15	NO NO
	Industria	al applicability (IA)	Claima	1-4,	6.	7.	9.	12.	13.	15	YES
		••	Claims								
			·							<u></u>	
2.		d explanations (Rule 7			_				-		
	1.	This repo		kes re	eter	enc	e t	o th	e fo	llowing	
		documents	:								
			646	0.00 -				~~			
									ARTI	N ET AL)	
				997 (1						\	
									EL S	ET AL)	
		27 M	arch	2003	(200	13-0	3-2	7)			
	2. Independent claim 1										
	۷.	maepenae	iic Ci	aımı ı							
	2.1	The prese	nt ap	plicat	ior	n do	es	not	meet	the	
	2.1 The present application does not meet the requirements of PCT Article 33(1) because the										
		subject m									
		Article 3								•	
	Document D1 discloses (the references between										
	parentheses refer to that document):										
		a mo	tor v	ehicle	e (a	abst	rac	t, "	for	a vehicle")	
		with	at l	east (one	ele	ectr	omot	or (column 8,	
		line	7, f	ig. 7	, "t	rac	ctic	n mo	tor	5"), an	
	energy accumulator (column 8, line 20,										
	fig. 7, "battery 1") for supplying drive										

International application No.
PCT/EP2004/003151

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

energy to the electromotor, with a plug connector connected to the energy accumulator (column 8, line 19, fig. 7, "input port 7"), for connection to a power source, and with a control system (column 8, line 13, fig. 7, "microcontroller 3") for controlling the power flow from the power source to the energy accumulator, the control system allowing the power to flow from the energy accumulator to the power source, and a power converter (column 8, line 12, fig. 7, "converter 2") being provided inside or outside the vehicle, by means of which the electrical energy of the energy accumulator can be fed into the power source in the form of alternating current (column 8, lines 39 and 40, "...batteries can be ... indeed discharged into the AC source").

- 2.2 All the features of claim 1 are therefore known from the disclosure of D1. The subject matter of claim 1 thus lacks novelty (PCT Article 33(1) and (2)).
- 3. Independent claim 6
- 3.1 The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claim 6 lacks novelty (PCT Article 33(2)).
- 3.2 The subject matter of claim 6 is covered by that

International application No.
PCT/EP2004/003151

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement The comments made above therefore of claim 1. also apply to the subject matter of claim 6. All the features of claim 6 are therefore known 3.3 from the disclosure of D1. The subject matter of claim 6 thus lacks novelty (PCT Article 33(1) and (2)). 4. Dependent claims 2-4, 7 and 9 4.1 Claims 2-4, 7 and 9 do not contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for novelty and inventive step.

Box	No. VI Certain documents cited			
1.	Certain published documents (Rule 70.10)		<u> </u>	~
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	Patent No.	(day/monin/year)	(day/monin/year)	(аау ноши уеаг)
2.	Non-written disclosures (Rule 70.9)			
	Kind of non-written disclosure	Date of non-written discl (day/month/year)	osure referring	e of written disclosure g to non-written disclosure (day/month/year)
1				

International application No.
PCT/EP2004/003151

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box I.

The amended claims 1 to 13 submitted with the letter of 6 May 2005 correspond essentially to the originally filed claims, the subject matter of the original claims 2 and 8 being included in each of independent claims 1 and 5.

As has already been noted by the International Searching Authority, the original claims 1 to 15 do not meet the PCT requirements in respect of unity of invention. In particular, the subject matter of the original claims 1 and 6 on the one hand and that of the original claim 8 on the other hand belong to different groups of inventions.

The applicant has not paid any additional search fees in response to the invitation to do so. The international search report was therefore drafted on the basis of the first invention only (claims 1-4, 6, 7, 9, 12, 13 and 15).

Pursuant to PCT Rule 66.1(e), amended claims which relate to inventions in respect of which no search has been carried out are not taken into consideration in the international preliminary examination.

The amended claims 1 to 13 submitted with the letter of 6 May 2005 all contain the subject

Supplemental Box

matter of the originally submitted claim 8, which belongs to the second invention. No search fees were paid in relation to the second invention and therefore no search was carried out in respect of the second invention.

Consequently, pursuant to PCT Rule 66.1(e), the amended claims 1 to 13 are not taken into consideration for the purposes of international preliminary examination.

This report was therefore drafted on the basis of the originally submitted claims 1 to 15.

Box IV.

1. The different inventions are:

1.1 Invention 1, claims 1-4, 6, 7, 9, 12, 13 and 15

Vehicle with a drive system and an accumulator connected thereto, and with a connection for a power supply, wherein the accumulator is linked to a control system by means of which the accumulator can be discharged in a controlled manner when connected to the electric power supply and the electric energy can be channelled into the electric power supply.

PCT/EP2004/003151

Supplemental Box

1.2 Invention 2, claims 5 and 8

Method for controlling the power flow between an energy accumulator and a power supply, wherein the power is allowed to flow from the power supply into the energy accumulator during specifiable first time segments, and from the energy accumulator into the power supply during specifiable second time segments.

1.3 Invention 3, claims 10 and 11

Power supply with a plurality of connections.

1.4 Invention 4, claim 14

Vehicle with a drive system and an accumulator connected thereto, and with a connection for a power supply, wherein the accumulator is linked to a control system by means of which the accumulator can be discharged in a controlled manner when connected to the electric power supply, the vehicle having an electrical connector plug with an earth wire, by means of which vehicle data can be exchanged over a data network operated by the power supply company and other data relating to the data network can be fed in.

The above inventions are not so linked as to form

International application No.
PCT/EP2004/003151

Supplemental Box

a single general inventive concept (PCT Rule 13.1) for the following reasons:

- 2.1 Inventions 1 to 4 clearly relate to different subjects. No single general inventive concept in the sense of PCT Rule 13.1 can be found in the application. The different features of the four ascertained inventions concern solutions to different technical problems.
- 2.2 The first invention is directed to a vehicle with a drive system and an accumulator, the contents of which can be fed into an electric power supply. The second invention concerns a method for controlling the power flow from an accumulator into a power supply and from a power supply into an accumulator in such a way as to optimise the costs involved. The third invention concerns a power supply with a plurality of connections. Finally, a fourth invention is claimed relating to a vehicle with a connector plug, via the earth wire of which data can be exchanged between the vehicle and an electric power supply.
- 2.3 The four inventions clearly concern solutions to different technical problems. The four inventions are therefore not so linked as to form a single general inventive concept (PCT Rule 13.1).
- 3. The application concerns a number of inventions or groups of inventions in the sense of PCT Rule 13.1. These have been divided as described above.

International application No.
PCT/EP2004/003151

Supplemental Box

If the applicant were to pay additional fees for one (or more) group(s) of inventions for which a search has not yet been carried out, the additional search(es) could reveal further prior art which could retrospectively reveal a further lack of unity of invention within one (or more) of the groups for which a search has not yet been carried out. In that case, the search would be performed only in relation to the first invention within (each of) the group(s) of inventions for which a lack of unity of invention had been determined. No further invitation to pay additional fees will be made. This is owing to the fact that PCT Article 17(3) states that the International Searching Authority shall establish the international search report on those parts of the international application which relate to the invention first mentioned in the claims ("main invention") and on those parts which relate to inventions in respect of which additional fees were paid. Neither the PCT Treaty nor the PCT Guidelines contains a legal requirement to issue further invitations to pay additional search fees (W17/00, point 11 and W1/97, points 11-16).